

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	6	((MARTIN) near2 (TOLLNER)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2011/08/03 15:09
L4	113	(vacuum and pump and flow and chamber and (time or period) and speed and (air or gas) and pressure).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/03 15:12
S1	2	("6142163").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/10 13:58
S2	2	("5803107").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/10 13:58
S3	2	("5758680").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/10 13:59
S4	2	("2005217732").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:27
S5	2	("20050217732").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:28
S6	2	("5534706").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:55
S7	4	("2002094306").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:55
S8	2	("20020094306").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:56

S9	2	("5944049").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 14:56
S10	2	("20070163330").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 15:24
S11	1884	(417/053,53).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 15:30
S12	0	("1andchamberandvacuum").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/17 15:30
S13	0	S4 and vacuum and chamber and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/17 15:30
S14	199	S11 and vacuum and chamber and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/17 15:30
S15	5	("5088895"   "5228838"   "5788825"   "6149729"   "6446651").PN. OR ("7101155").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 15:38
S16	9	("4770609"   "5224836"   "5641270"   "5664937"   "5725358").PN. OR ("6474949").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 15:53
S17	214	417/302	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 15:59
S18	29	S17 and vacuum and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/17 15:59
S19	12	("2652188"   "4505647"   "4850806"   "5039280"   "5228838"   "5259735"   "5595477").PN. OR ("6004109").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 16:00
S20	102	137/565,23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/17 16:02
S21	1094	(137/14,565,29,565,3).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/09/18 06:21

S22	148	S21 and vacuum and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/18 06:21
S23	102	137/565.23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/18 06:22
S24	134	S22 not S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/18 06:22
S25	208	Multi near2 stage near2 vacuum near2 pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/22 09:27
S26	35	S25 and series and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/09/22 09:27
S27	35	"6142163"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:15
S28	0	((vary\$3 or chang\$3) near2 conductance) with valve with (downstream near2 pump)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:23
S29	136	((vary\$3 or chang\$3) near2 conductance) near3 valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:24
S30	87	S29 and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:24
S31	87	S30 and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:24
S32	30	S30 and (set\$3 near2 pressure)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:24

S33	1254	valve near2 (downstream near2 pump)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:39
S34	4	S29 and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:39
S35	0	S32 not S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:41
S36	57	S31 not S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:41
S37	2	"7198455"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 08:45
S38	11	"6184597"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 10:29
S39	2	"20060171822"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/04/21 10:30
S40	30	"5944049"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 07:35
S41	0	((increas\$3 with (rate near2 evacuat\$3) with vacuum) same (pump with (lower\$3 or reduc\$3 near2 speed))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 07:48
S42	2	((increas\$3 with ((rate or time) near2 evacuat\$3) with vacuum) same (pump with (lower\$3 or reduc\$3 near2 speed))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 07:50
S43	2	"20070163330"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 08:55

S44	47	((vary\$3 or chang\$3) near3 (valve near2 conductance)) same ((fast\$2 or quick\$3) near3 evacuat\$3 or vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 09:13
S45	38	S44 and pump	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 09:13
S46	1	((rapid near2 (vacuum or evacuat\$3)) same chamber same valve same conductance same time same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 09:42
S47	4	((rapid or short\$3 or quick\$3 or fast\$2) near2 (vacuum or evacuat\$3)) same chamber same valve same conductance same time same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 09:43
S48	21	("4699570"   "4887940"   "4887941"   "5039280"   "5165864"   "5586159"   "5746581"   "5849135"   "5971711"   "6022195"   "6045332"   "6131588").PN. OR ("6419455").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/27 09:46
S49	4	((rapid or short\$3 or quick\$3 or fast\$2) near2 (vacuum or evacuat\$3)) same chamber same valve same conductance same time same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:07
S50	157	(pump\$3 near2 speed) same valve same conductance same pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:09
S51	151	S50 and (vacuum or evacuat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:09
S52	139	S51 and (time or period)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:10
S53	94603	flat near2 panel near2 display\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:38
S54	1617	S53 and (vacuum near2 pump\$3) and chamber and valve and pressure and (time or period)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:39

S55	30	S54 and ("417".clas. or "137".clas.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 10:39
S56	16	("20030113215"   "20050042118"   "20060140795"   "3096785"   "3151806"   "4171936"   "4734018"   "4990066"   "5924841"   "6089537"   "6161576"   "6168390"   "6676384").PN. OR ("7140847").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/27 10:50
S57	6	("20010032613"   "5443368"   "6200107"   "6598615"   "6869880"   "7140847").PN. OR ("7438534").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/27 10:52
S58	75	chamber and (time and period ) and vacuum and (pump\$3 near2 speed) and (valve near2 conductance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 11:17
S59	2	"7814922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 11:23
S60	24	("20050217732"   "2935242"   "3537474"   "4699570"   "5039280"   "5110264"   "5228838"   "5259735"   "5340295"   "5534706"   "5537857"   "5611863"   "5758680"   "5944049"   "6004109"   "6080679"   "6382249"   "6446651"   "6782907"   "6938638"   "7033142"   "7219692").PN. OR ("7814922").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/27 11:49
S61	7	"5534706"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 12:16
S62	11	"5611863"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 12:16
S63	30	"5944049"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 12:19
S64	37	"6142163"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 12:33
S65	30	"5944049"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/01/27 13:57

S66	6	("2555930").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/01/29 21:52
S67	2	("6474949").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/01/31 12:48
S68	2	("6474949").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/08/02 13:38
S69	2	("5944049").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/08/02 13:39
S70	1967	(417/20,36,42,43,42,44.2).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/08/02 16:36
S71	0	("2andvacuum").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2011/08/02 16:36
S72	214	S70 and vacuum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/02 16:36

## EAST Search History (I Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	49842	vacuum and pump and flow and chamber and (time or period) and speed and (air or gas) and pressure	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:12
L6	4276	vacuum and pump and flow and chamber and (time or period) and speed and (air or gas) and pressure and valve and ((lower\$3 or reduc\$3) near2 speed)	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:14

L7	3693	vacuum and pump and flow and chamber and (time or period) and speed and (air or gas) and pressure and valve and ((lower\$3 or reduc\$3) near2 speed)and method	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:14
L8	3619	7 and control\$3	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:15
L9	107	8 and "417".clas.	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:15
L10	58	8 and "137".clas.	US-PGPUB; USPAT; UPAD	OR	ON	2011/08/03 15:15

8/3/2011 3:37:50 PM

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